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(71)Applicant : CENTRAL RES INST OF
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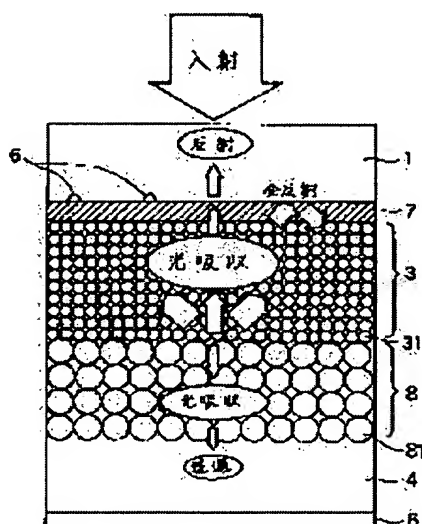
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(54) SENSITIZED PIGMENT SOLAR BATTERY

(57)Abstract:

PROBLEM TO BE SOLVED: To improve conversion efficiency which is represented with the ratio of battery power to incident light quantity.

SOLUTION: This solar battery is constituted by forming an electrode 6 at the back surface of a glass substrate 1, forming a light absorption particle layer 3 formed out of accumulated semiconductor fine grains 31 which attracts pigment, at the lower surface of the electrode 6, forming an electrolyte part 4 at the lower surface of the electrode 6 including the light absorption particle layer 3, and forming an opposite electrode 5 at the lower surface of the electrolyte part 4. A high refraction material membrane 7 is formed between the electrode 6 and the light absorption particle layer 3, and a high reflection particle layer 8 which is formed out of accumulated high refraction material particles 81



whose diameter is controlled is formed at the lower surface of the light absorption particle layer 3.

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